

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

**Complete if Known**

Application Number	10/541,522
Filing Date	July 7, 2005
First Named Inventor	William Brown
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	100952-1P US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 2,898,339	08/04/1959	Whoeler et al.	
		US- 4,581,171	04/08/1986	Kennis et al.	
		US- 4,816,586	03/28/1989	Portoghesi	
		US- 4,939,137	07/03/1990	Russell et al.	
		US- 5,140,029	08/18/1992	Kennis et al.	
		US- 5,574,159	11/12/1996	Chang et al.	
		US- 5,683,998	11/04/1997	Shibayama et al.	
		US- 6,187,792	02/13/2001	Delorme et al.	
		US- 6,455,545	09/24/2002	Delorme et al.	
		US- 6,552,036	04/22/2003	Boyd et al.	
		US- 6,556,387	04/29/2003	Misso et al.	
		US- 6,756,387	06/29/2004	Brown et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		WO 93/15062	08/05/1993	The Wellcome Foundation		
		WO 97/23466	07/03/1997	Astra Aktiebolag		
		WO 98/28275	07/02/1998	Astra Pharma, Inc.		
		WO 99/33806	07/08/1999	Ortho-McNeil Pharmaceutical		
		WO 01/74804	10/11/2001	AstraZeneca AB		
		WO 01/74806	10/11/2001	AstraZeneca AB		

Examiner Signature	/David O Dell/	Date Considered	05/07/2008
--------------------	----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTQ/SB/08A (07-05)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	3
-------	---	----	---

**Complete if Known**

Application Number	10/541,522
Filing Date	July 7, 2005
First Named Inventor	William Brown
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	100952-1P US

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). <sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>2</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/088 (07-05)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Application Number</b>	10/541,522
		<b>Filing Date</b>	July 7, 2005
		<b>First Named Inventor</b>	William Brown
		<b>Art Unit</b>	Unknown
		<b>Examiner Name</b>	Unknown
<b>Sheet</b> 3	<b>of</b> 3	<b>Attorney Docket Number</b>	100952-1P US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BARBER, A. et al., "Antinociceptive effects of the 5-HT <sub>2</sub> Antagonist Ritanerlin in Rats: Evidence... in the Spinal Cord," Neuroscience Letters, 1989, Vol. 99, p. 234-238	
		BILSKY, E. et al., "SNC 80, A Selective, Nonpeptidic and Systematically Active Opioid Delta Agonist," J. Pharmacology Experimental Ther., 1995, Vol. 273, p. 359-366	
		GREENE, T., "Protective Groups in Organic Synthesis," Wiley & Sons, 1982, p. 218, 220, 232, 233, 251	
		TAKEMORI, A.E. et al., "Selective Naltrexone-Derived Opioid Receptor Antagonists," Annu. Rev. Pharmacol. Toxicol., 1992, Vol. 32, p. 239-269	
		WEI, Z. et al., "N,N-Diethyl-4-(phenylpiperidin-4-ylidenemethyl)benzamide: A Novel...and its Analogues," J. Med. Chem., 2000, Vol. 43, p. 3895-3905	
		ZHANG, X. et al., "Probes for Narcotic Receptor Mediated Phenomena. 26. 1-3 Synthesis... Opioid Receptor Ligands, J. Med. Chem., 1999, Vol. 42, p. 5455-5463	

<b>Examiner Signature</b>	/David O Dell/	<b>Date Considered</b>	05/07/2008
---------------------------	----------------	------------------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-785-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.O./

PTO/SB/08a (05-03)

Approved for use through 04/30/2003. OM8 0651-0031  
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete If Known**

Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	William Brown, et al.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	100492-1P US

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A1	US- 2,898,339	Aug. 4, 1959	Wheeler, et al.	
	A2	US- 4,581,171	April 8, 1986	Kennis, et al.	
	A3	US- 4,816,586	March 28, 1989	Portoghese	
	A4	US- 4,939,137	July 3, 1990	Russell, et al.	
	A5	US- 5,140,029	Aug. 18, 1992	Kennis, et al.	
	A6	US- 5,574,159	Nov. 12, 1996	Chang, et al.	
	A7	US- 5,683,998	Nov. 4, 1997	Shibayama, et al.	
	A8	US- 6,187,792	Feb. 13, 2001	Delorme, et al.	
	A9	US- 6,455,545	Sept., 24, 2002	Delorme, et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> Number <sup>2</sup> Kind Code <sup>2</sup> (if known)				
	B1	WO 99/33806	July 8, 1999	Ortho-McNeil Pharmaceutical, Inc.		
	B2	WO 93/15062	Aug. 5, 1993	The Wellcome Foundation Ltd.		
	B3	WO 97/23466	July 3, 1997	Astra Aktiebolag		
	B4	WO 98/28275	July 2, 1998	Astra Pharma, Inc.		
	B5	WO 0174804	Oct. 11, 2001	AstraZeneca AB		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Approved for use through 04/30/2003. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person is required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449-A/PTO

## Complete If Known

Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	William Brown, et al.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	100492-1P US

Sheet	2	of	2
-------	---	----	---

[illegible]

Examiner Initials*	Cite No.	Foreign Patent Document Country Code* Number* Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant: Paragraphs or Relevant Figures, Append.	Y <sup>6</sup>
	B6	WO 0174806	Oct. 11, 2001	AstraZeneca AB		

Examiner Signature	/David O Dell/	Date Considered	05/07/2008
-----------------------	----------------	--------------------	------------

EXAMINER: I am a Japanese citizen, whether or not person is in compliance with MPEP 901.04. Draw the design (including all not in compliance) and not considered. Include copy of this form with need communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional).<sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), or MPEP 901.04.<sup>3</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3).<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.<sup>5</sup> Kind of document for the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.<sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required for 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22315-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22315-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.**

PTO/SB/08/06-03

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 1

<b>Complete If Known</b>	
Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	William Brown et al.
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	100492-1P US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	C1	Bilsky, et al., "SNC 80, A Selective, Nonpeptidic and Systemically Active Opioid Delta Agonist, J. Pharmacol. Experi. Ther. 273:359-366(1995)	
	C2	Takemori, et al., "Selective Naltrexone-Driven Opioid Receptor Antagonists," Annu. Rev. Pharmacol. Toxicol. 32:239-269 (1992).	
	C3	Barber, et al., "Antinociceptive Effects of the 5-HT Antagonist Ritanerlin in Rats: Evidence for an Activation... in the Spinal Cord," Neuroscience Letters 99:234-238 (1989).	
	C4	Greene, "Protective Groups in Organic Synthesis," Wiley & sons, pp. 218, 220, 232, 233, 251 (1982).	
	C5	Wei, et al., "N,N-Diethyl-4-(phenylpiperidin-4-ylidenemethyl) . . . and its Analogues," J. Med. Chem. 43:3895-3905 (2000).	
	C6	Zhang, et al., "Probes for Narcotic Receptor Mediated Phenomena. 26. 1-3 Synthesis . . . Opioid Receptor Ligands," J. Med. Chem. 42:5455-5463 (1999).	

Examiner  
Signature

/David O Dell/

Date  
Considered

05/07/2008

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.O./